Guaranteed Performance Beyond the Standards
TX6A™ Shielded Copper Cabling System

TX6A™ Shielded Copper Cabling System is designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. This system provides users with headroom assurance that will exceed ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A standards for the following key electrical parameters: Insertion Loss (IL), Near-End Crosstalk (NEXT), Power Sum NEXT, Power Sum ACR-F, Return Loss, Power Sum ACR-N, Power Sum Alien NEXT, and Power Sum AACR-F. Panduit offers several shielded cable constructions including U/FTP and S/FTP cables with swept frequencies up to 1500MHz.

To determine the guaranteed headroom performance, long and short channels of four connector topologies were constructed, tested and analyzed. To ensure true worst case conditions, channels were tested under the following conditions:
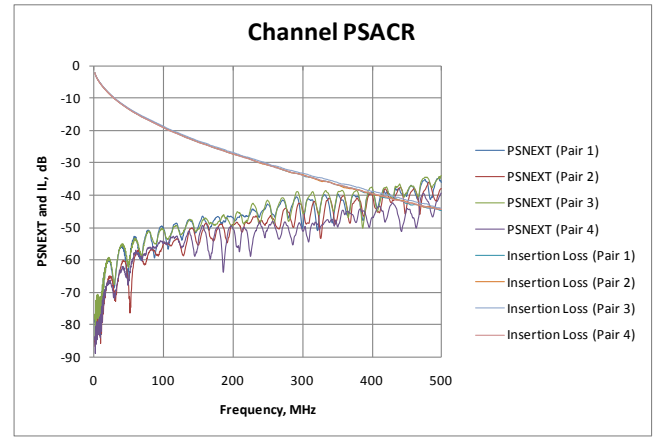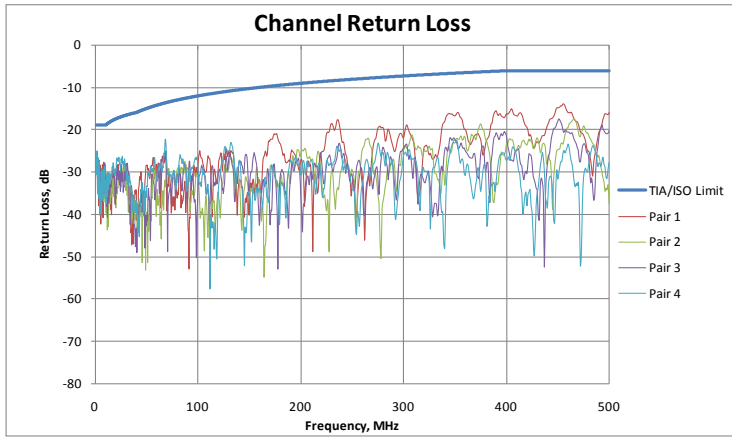
- Six-around-one configuration – bundled horizontal cables and patch cords are tied every 6-8 inches and laid so the disturbed cable is always in the center of the bundle down the full length of the channel

- Four connector topologies – the TX6A™ Shielded Copper Cabling System was tested under worse case, 100 meter and 24 meter testing configurations per ANSI/TIA-568.2-D, Annex L

- Tested at frequencies from 1 MHz to 500 MHz Category 6A standards, under "real world" conditions through the use of industry recognized hand-held testers, not test analyzers or computer models

Guaranteed Channel Headroom

Electrical Value	ANSI/TIA Category 6A	ISO Class E_A
Insertion Loss	3%	3%
NEXT	3.5 dB	2.5 dB
PSNEXT	5 dB	4 dB
PSACR-F	10 dB	10 dB
Return Loss	3 dB	3 dB
PSACR-N	6.5 dB	6.5 dB
PSANEXT	20 dB	20 dB
PSAACR-F	20 dB	20 dB

*Electrical values above are specified standards and consist of worst pair margin per ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A standards.

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Electrical Channel Performance Data

Channel Return Loss

Channel PSACR

Components of the TX6A™ Shielded Copper Cabling System

Description	Part Number	
Category 7A Copper Cable – S/FTP		
LSZH (60332-1) (1500 MHz)	PSL7A04**	
Category 7 Copper Cable – S/FTP		
LSZH (60332-1) (1000 MHz)	PSL7004**	
LSZH (60332-1) (600 MHz)	PSL7004**	
Category 6A Copper Cable – F/FTP		
LSZH (60332-1) (500MHz)	PFFL6X04**	
LSZH (60332-3) (500MHz)	PFFZ6X04**	
Category 6A Copper Cable – U/FTP		
Riser (500 MHz)	PUFR6X04**	
Plenum (500 MHz)	PUFP6X04**	
LSZH (60332-1) (500 MHz)	PUFL6X04**	
LSZH (60332-3) (500MHz)	PUFZ6X04**	
TX6A™ Shielded Patch Cords		
Patch Cords (foot lengths)	STP6X3IG++	
Patch Cords (meter lengths)	STP6X1MIG***	
Mini-Com® TX6A™ Jack Modules		
Shielded	CJS6X88TGY, CJSM6X88TG	
Mini-Com® All Metal Modular Patch Panels	**Angled**	**Flat**
24-port, 1 RU	CPA24BLY	CP24BLY
48-port, 2 RU	CPA48BLY	CP48BLY
Mini-Com® All Metal Modular Patch Panels with Strain Relief Bar		
24-port, Flat, 1 RU	CP24WSBLY	
48-port, Flat, 2 RU	CP48WSBLY	

**Contact customer service or visit www.panduit.com for available color and packaging options. .
++For lengths 2 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number
to the desired length. For standard cable colors other than IG (International Gray), replace IG suffix with BL (Black), BU (Blue), RD (Red), YL (Yellow),
GR (Green), OR (Orange), or VL (Violet) to end of part number. For example , the part number of a blue 15-foot patch cord
is STP6X15BU.
***For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in
the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black),
BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number
for a blue 15-meter patch cord is STP6X15MBU.
Contact customer service for additional colors and region availability of copper cabling.
For a copy of the Panduit warranty, visit www.panduit.com/warranty.